

14/2
RECEIVED

AUG 23 2001 1644

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/08/833,838B

TIME: 10:25:58

Input Set : A:\96700-451.ST25.txt

Output Set: N:\CRF3\07242001\H833838B.raw

3 <110> APPLICANT: Gaynor, Bruce
 4 Diamond, Betty
 5 Scharff, Matthew
 6 Valadon, Philippe
 8 <120> TITLE OF INVENTION: PEPTIDES FOR THE TREATMENT AND DIAGNOSIS
 9 OF SYSTEMIC LUPUS ERYTHEMATOSUS
 11 <130> FILE REFERENCE: 96700/451
 13 <140> CURRENT APPLICATION NUMBER: US 08/833,838B
 15 <141> CURRENT FILING DATE: 1997-04-10
 17 <150> PRIOR APPLICATION NUMBER: US 08/531,832
 19 <151> PRIOR FILING DATE: 1995-09-20
 21 <160> NUMBER OF SEQ ID NOS: 24
 23 <170> SOFTWARE: PatentIn version 3.0
 26 <210> SEQ ID NO: 1
 28 <211> LENGTH: 10
 30 <212> TYPE: PRT
 32 <213> ORGANISM: artificial sequence
 34 <220> FEATURE:
 36 <221> NAME/KEY: peptide
 38 <222> LOCATION: (1)..(10)
 40 <223> OTHER INFORMATION: synthetic peptide that binds R4A
 42 <400> SEQUENCE: 1
 44 Asp Trp Glu Tyr Ser Val Trp Leu Ser Asn
 45 1 5 10
 48 <210> SEQ ID NO: 2
 50 <211> LENGTH: 5
 52 <212> TYPE: PRT
 54 <213> ORGANISM: artificial sequence
 56 <220> FEATURE:
 58 <221> NAME/KEY: peptide
 60 <222> LOCATION: (1)..(5)
 62 <223> OTHER INFORMATION: peptide that inhibits binding of R4A to calf thymus dsDNA;
 63 X at positions 1 and 3 may be Asp or Glu;
 64 X at position 5 may be Gly or Ser
 66 <400> SEQUENCE: 2
 68 Xaa Trp Xaa Tyr Xaa
 69 1 5
 72 <210> SEQ ID NO: 3
 74 <211> LENGTH: 6
 76 <212> TYPE: PRT
 78 <213> ORGANISM: artificial sequence
 80 <220> FEATURE:
 82 <221> NAME/KEY: peptide
 84 <222> LOCATION: (1)..(6)
 86 <223> OTHER INFORMATION: peptide that binds human anti-dsDNA monoclonal antibodies;
 87 X at positions 1 and 4 may be any amino acid
 89 <400> SEQUENCE: 3

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/833,838B

DATE: 07/24/2001
TIME: 10:25:58

Input Set : A:\96700-451.ST25.txt
Output Set: N:\CRF3\07242001\H833838B.raw

RECEIVED

AUG 23 2001

TECH CENTER 1600/2900

W/ 91 Xaa Gly Trp Xaa Arg Val
92 1 5
95 <210> SEQ ID NO: 4
97 <211> LENGTH: 6
99 <212> TYPE: PRT
101 <213> ORGANISM: artificial sequence
103 <220> FEATURE:
105 <221> NAME/KEY: peptide
107 <222> LOCATION: (1)..(6)
109 <223> OTHER INFORMATION: peptide that binds human anti-dsDNA monoclonal antibodies;
110 X at positions 1, 3, and 6 may be any amino acid
112 <400> SEQUENCE: 4
W/ 114 Xaa Trp Xaa Tyr His Xaa
115 1 5
118 <210> SEQ ID NO: 5
120 <211> LENGTH: 6
122 <212> TYPE: PRT
124 <213> ORGANISM: artificial sequence
126 <220> FEATURE:
128 <221> NAME/KEY: peptide
130 <222> LOCATION: (1)..(6)
132 <223> OTHER INFORMATION: peptide that binds human anti-dsDNA monoclonal antibodies;
133 X at positions 1 and 3 may be Asp or Glu
135 <400> SEQUENCE: 5
W/ 137 Xaa Gly Xaa Trp Pro Arg
138 1 5
141 <210> SEQ ID NO: 6
143 <211> LENGTH: 25
145 <212> TYPE: PRT
147 <213> ORGANISM: artificial sequence
149 <220> FEATURE:
151 <221> NAME/KEY: peptide
153 <222> LOCATION: (1)..(25)
155 <223> OTHER INFORMATION: amino terminus used to construct decapeptide library;
156 X at positions 7-16 may be any amino acid
158 <400> SEQUENCE: 6
W/ 160 Ala Asp Gly Ser Gly Gly Xaa
161 1 5 10 15
163 Gly Ala Pro Ser Gly Ala Glu Thr Val
164 20 25
167 <210> SEQ ID NO: 7
169 <211> LENGTH: 10
171 <212> TYPE: PRT
173 <213> ORGANISM: artificial sequence
175 <220> FEATURE:
177 <221> NAME/KEY: peptide
179 <222> LOCATION: (1)..(10)
181 <223> OTHER INFORMATION: peptide synthesized in the Macromolecular Analysis Facility
at
182 Albert Einstein College of Medicine

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/08/833,838B TIME: 10:25:58

Input Set : A:\96700-451.ST25.txt
Output Set: N:\CRF3\07242001\H833838B.raw

184 <400> SEQUENCE: 7
186 Arg His Glu Asp Gly Asp Trp Pro Arg Val
187 1 5 10
190 <210> SEQ ID NO: 8
192 <211> LENGTH: 10
194 <212> TYPE: PRT
196 <213> ORGANISM: artificial sequence
198 <220> FEATURE:
200 <221> NAME/KEY: peptide
202 <222> LOCATION: (1)..(10)
204 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
205 a decapeptide library with R4A
207 <400> SEQUENCE: 8
209 Trp Cys Glu Ala Asp Tyr Gly Arg Cys Pro
210 1 5 10
213 <210> SEQ ID NO: 9
215 <211> LENGTH: 10
217 <212> TYPE: PRT
219 <213> ORGANISM: artificial sequence
221 <220> FEATURE:
223 <221> NAME/KEY: peptide
225 <222> LOCATION: (1)..(10)
227 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
228 a decapeptide library with R4A
230 <400> SEQUENCE: 9
232 Leu Tyr Phe Glu Asp Tyr Arg Cys Glu Leu
233 1 5 10
236 <210> SEQ ID NO: 10
238 <211> LENGTH: 10
240 <212> TYPE: PRT
242 <213> ORGANISM: artificial sequence
244 <220> FEATURE:
246 <221> NAME/KEY: peptide
248 <222> LOCATION: (1)..(10)
250 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
251 a decapeptide library with R4A
253 <400> SEQUENCE: 10
255 Asp Trp Asp Tyr Gly Ala Leu Met Trp Ala
256 1 5 10
259 <210> SEQ ID NO: 11
261 <211> LENGTH: 10
263 <212> TYPE: PRT
265 <213> ORGANISM: artificial sequence
267 <220> FEATURE:
269 <221> NAME/KEY: peptide
271 <222> LOCATION: (1)..(10)
273 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
274 a decapeptide library with R4A
276 <400> SEQUENCE: 11

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/08/833,838B TIME: 10:25:58

Input Set : A:\96700-451.ST25.txt
Output Set: N:\CRF3\07242001\H833838B.raw

278 Tyr Ser Asp Trp Asp Tyr Ser Glu Gly Leu
279 1 5 10
282 <210> SEQ ID NO: 12
284 <211> LENGTH: 10
286 <212> TYPE: PRT
288 <213> ORGANISM: artificial sequence
290 <220> FEATURE:
292 <221> NAME/KEY: peptide
294 <222> LOCATION: (1)..(10)
296 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
297 a decapeptide library with R4A
299 <400> SEQUENCE: 12
301 Ser Thr Glu His Ser Glu Ala Asp Leu Trp
302 1 5 10
305 <210> SEQ ID NO: 13
307 <211> LENGTH: 10
309 <212> TYPE: PRT
311 <213> ORGANISM: artificial sequence
313 <220> FEATURE:
315 <221> NAME/KEY: peptide
317 <222> LOCATION: (1)..(10)
319 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
320 a decapeptide library with R4A
322 <400> SEQUENCE: 13
324 Val Pro Val Cys Asp Trp Glu Leu Asn Cys
325 1 5 10
328 <210> SEQ ID NO: 14
330 <211> LENGTH: 10
332 <212> TYPE: PRT
334 <213> ORGANISM: artificial sequence
336 <220> FEATURE:
338 <221> NAME/KEY: peptide
340 <222> LOCATION: (1)..(10)
342 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
343 a decapeptide library with R4A
345 <400> SEQUENCE: 14
347 Phe Ser Asp Cys Tyr His Ser Gly Cys Pro
348 1 5 10
351 <210> SEQ ID NO: 15
353 <211> LENGTH: 10
355 <212> TYPE: PRT
357 <213> ORGANISM: artificial sequence
359 <220> FEATURE:
361 <221> NAME/KEY: peptide
363 <222> LOCATION: (1)..(10)
365 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
366 a decapeptide library with 52b3
368 <400> SEQUENCE: 15
370 Leu Leu Asp Asp Gly Phe Trp Pro Arg Val

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/08/833,838B TIME: 10:25:58

Input Set : A:\96700-451.ST25.txt
Output Set: N:\CRF3\07242001\H833838B.raw

371 1 5 10
374 <210> SEQ ID NO: 16
376 <211> LENGTH: 10
378 <212> TYPE: PRT
380 <213> ORGANISM: artificial sequence
382 <220> FEATURE:
384 <221> NAME/KEY: peptide
386 <222> LOCATION: (1)..(10)
388 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
389 a decapeptide library with 52b3
391 <400> SEQUENCE: 16
393 Cys Gly Val Asp Gly Arg Trp Pro Arg Trp
394 1 5 10
397 <210> SEQ ID NO: 17
399 <211> LENGTH: 10
401 <212> TYPE: PRT
403 <213> ORGANISM: artificial sequence
405 <220> FEATURE:
407 <221> NAME/KEY: peptide
409 <222> LOCATION: (1)..(10)
411 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
412 a decapeptide library with 52b3
414 <400> SEQUENCE: 17
416 Ser Leu Ile Ser Asp Glu Trp Pro Arg Trp
417 1 5 10
420 <210> SEQ ID NO: 18
422 <211> LENGTH: 10
424 <212> TYPE: PRT
426 <213> ORGANISM: artificial sequence
428 <220> FEATURE:
430 <221> NAME/KEY: peptide
432 <222> LOCATION: (1)..(10)
434 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
435 a decapeptide library with 52b3
437 <400> SEQUENCE: 18
439 Asp Gly Glu Trp Pro Arg Glu Gly Trp Ser
440 1 5 10
443 <210> SEQ ID NO: 19
445 <211> LENGTH: 10
447 <212> TYPE: PRT
449 <213> ORGANISM: artificial sequence
451 <220> FEATURE:
453 <221> NAME/KEY: peptide
455 <222> LOCATION: (1)..(10)
457 <223> OTHER INFORMATION: randomly-selected sequence obtained by biopanning
458 a decapeptide library with 52b3
460 <400> SEQUENCE: 19
462 Glu Asp Leu Glu Gly Glu Trp Pro Met Arg
463 1 5 10

VERIFICATION SUMMARY
PATENT APPLICATION: US/08/833,838B

DATE: 07/24/2001
TIME: 10:25:59

Input Set : A:\96700-451.ST25.txt
Output Set: N:\CRF3\07242001\H833838B.raw

L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6